

FIG.1

10 ELECTRONIC CAMERA

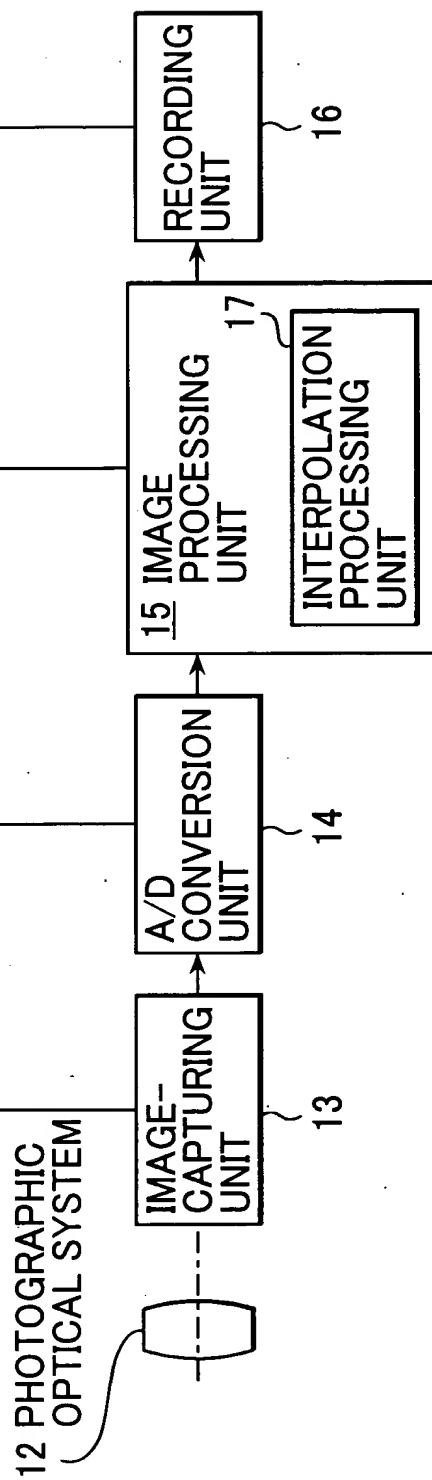


FIG.2A

COORDINATES [i,j]	i-3	i-2	i-1	i	i+1	i+2	i+3
j-3	B	G	B	G	B	G	B
j-2	G	R	G	R	G	R	G
j-1	B	G	B	G	B	G	B
j	G	R	G	R	G	R	G
j+1	B	G	B	G	B	G	B
j+2	G	R	G	R	G	R	G
j+3	B	G	B	G	B	G	B

FIG.2B

COORDINATES [i,j]	i-3	i-2	i-1	i	i+1	i+2	i+3
j-3	R	G	R	G	R	G	R
j-2	G	B	G	B	G	B	G
j-1	R	G	R	G	R	G	R
j	G	B	G	B	G	B	G
j+1	R	G	R	G	R	G	R
j+2	G	B	G	B	G	B	G
j+3	R	G	R	G	R	G	R

FIG.3A

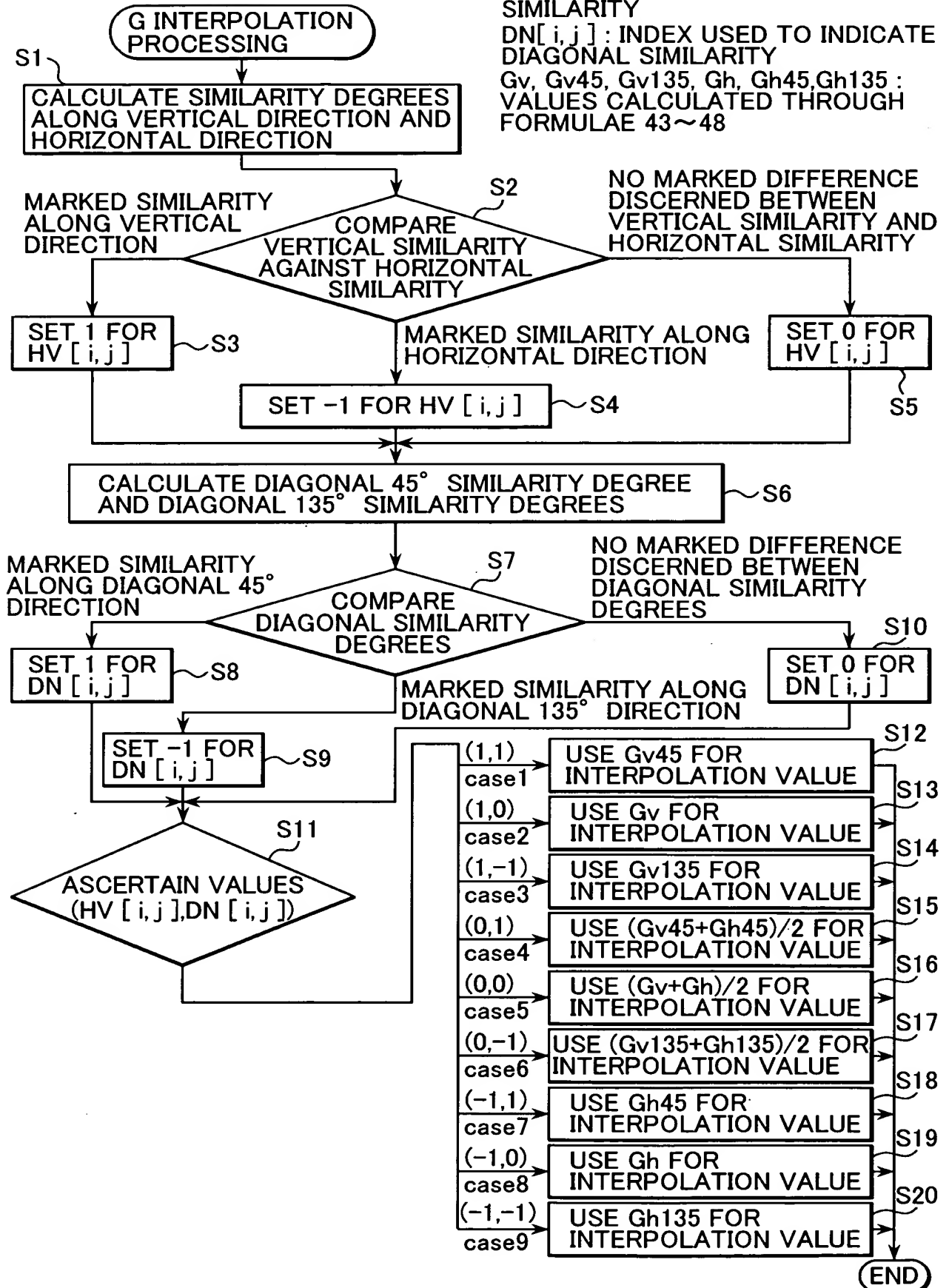
COORDINATES [i, j]	i-2	i-1	i	i+1	i+2
j-2	R	G	R	G	R
j-1	B	G	B	G	B
j	R	G	R	G	R
j+1	B	G	B	G	B
j+2	R	G	R	G	R

FIG.3B

COORDINATES [i, j]	i-2	i-1	i	i+1	i+2
j-2	B	G	B	G	B
j-1	R	G	R	G	R
j	B	G	B	G	B
j+1	R	G	R	G	R
j+2	B	G	B	G	B

FIG.4

HV[i, j] : INDEX USED TO INDICATE VERTICAL AND HORIZONTAL SIMILARITY
 DN[i, j] : INDEX USED TO INDICATE DIAGONAL SIMILARITY
 Gv, Gv45, Gv135, Gh, Gh45, Gh135 : VALUES CALCULATED THROUGH FORMULAE 43~48



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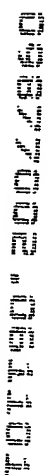


FIG.6A

1		1
	4	
1		1

× 1/8

WEIGHTED ADDITION OF
 SIMILARITY DEGREE
 COMPONENTS IN METHOD 1

FIG.6B

		1		
	2		2	
1		4		1
	2		2	
		1		

× 1/16

WEIGHTED ADDITION OF
 SIMILARITY DEGREE
 COMPONENTS IN METHOD 2

FIG.7

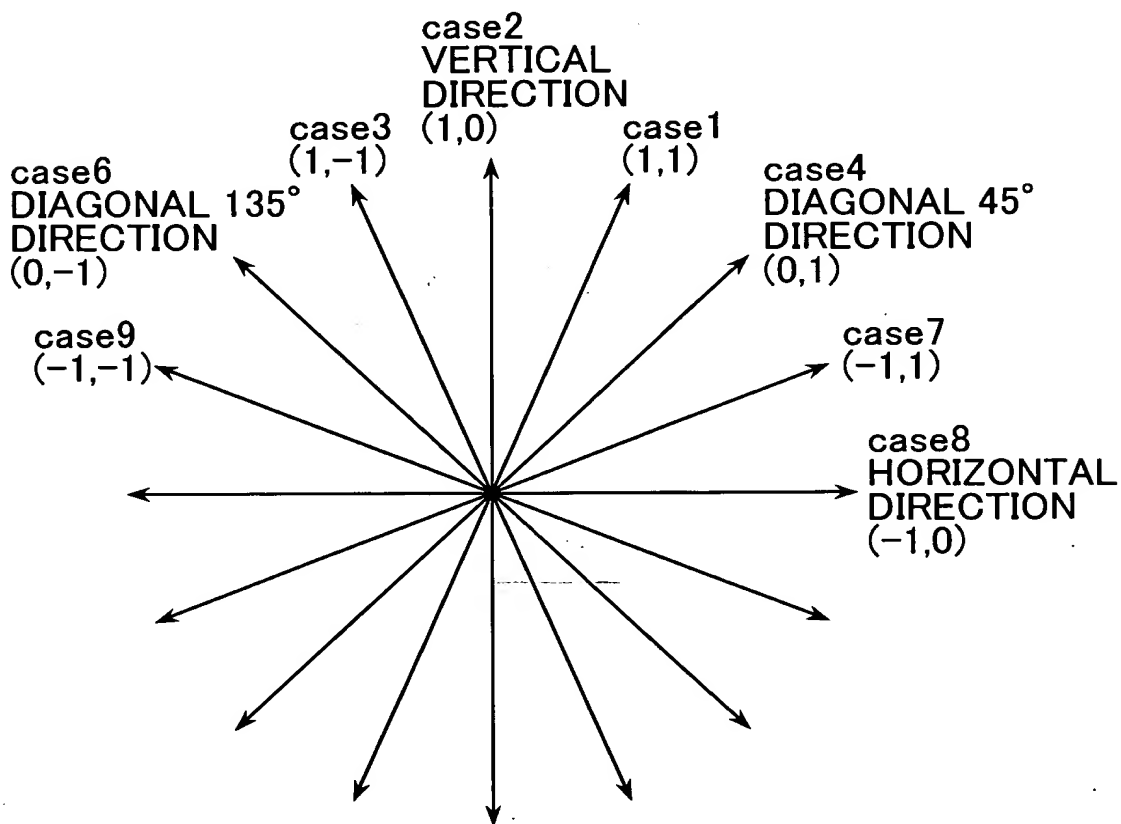
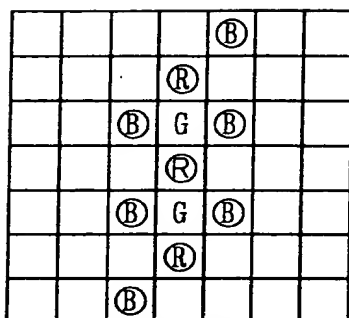
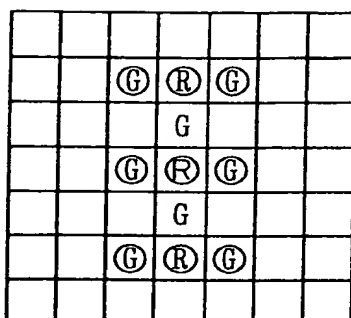


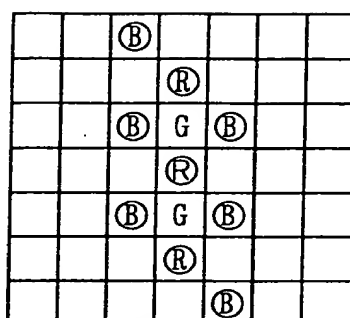
FIG.8



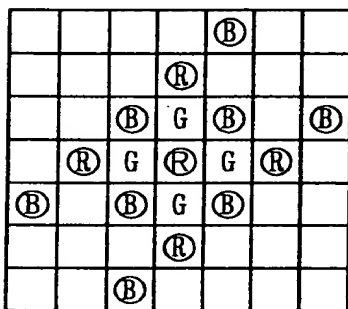
case1 : (HV,DN)=(1,1)



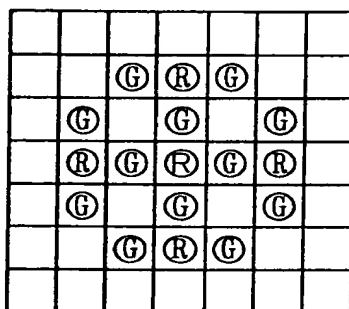
case2 : (HV,DN)=(1,0)



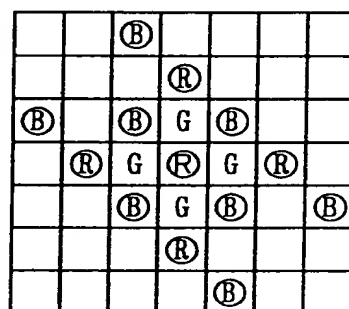
case3 : (HV,DN)=(1,-1)



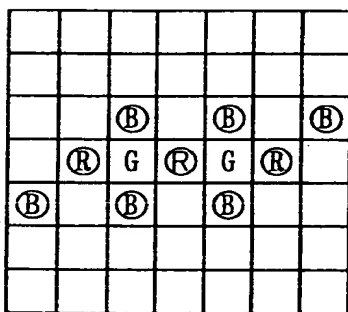
case4 : (HV,DN)=(0,1)



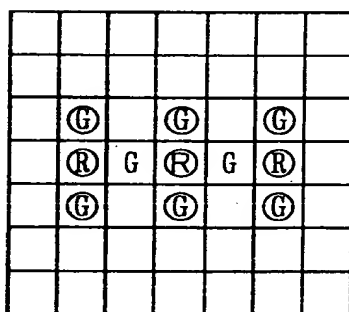
case5 : (HV,DN)=(0,0)



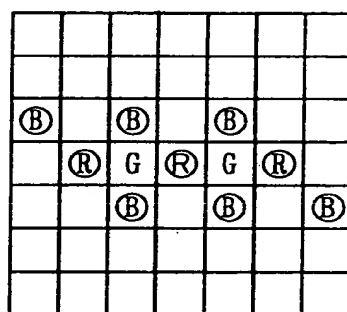
case6 : (HV,DN)=(0,-1)



case7 : (HV,DN)=(-1,1)



case8 : (HV,DN)=(-1,0)



case9 : (HV,DN)=(-1,-1)

FIG.9A

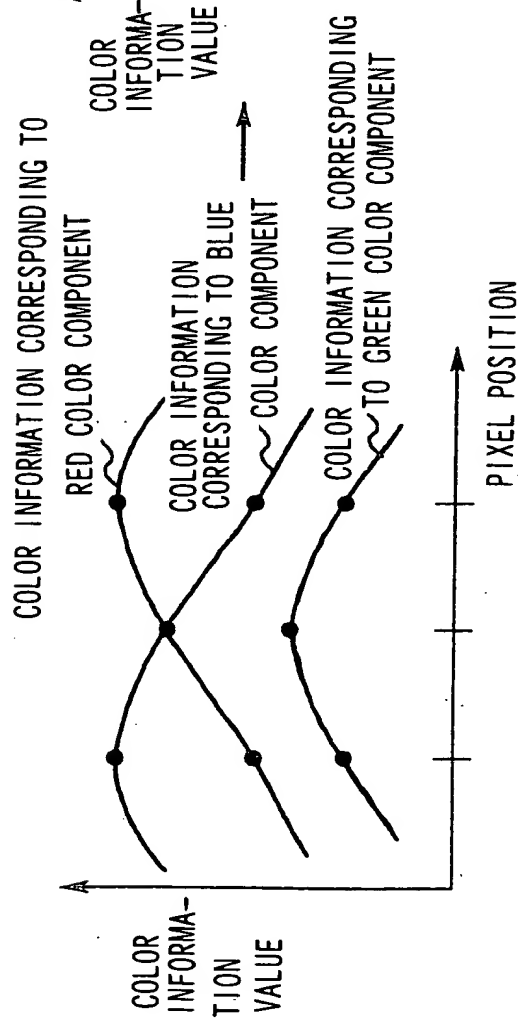


FIG.9B

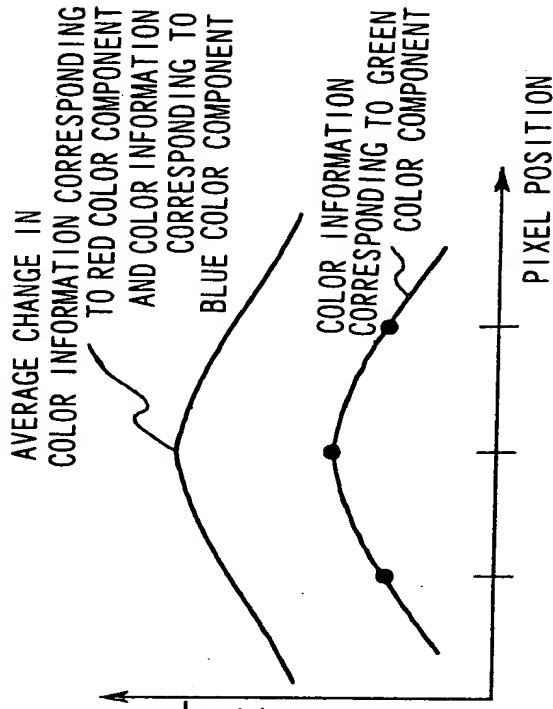


FIG. 10A

Y	O	Y
Δ	x	Δ
Y	O	Y

FIG. 10B

Cr	O	Cr
Δ	x	Δ
Cr	O	Cr

FIG. 10C

Cb	O	Cb
Δ	x	Δ
Cb	O	Cb

FIG.11A

COORDINATES [m,n]	m-1	m	m+1
n-1	Cr		Cr
n		x	
n+1	Cr		Cr

FIG.11B

COORDINATES [m,n]	m-1	m	m+1
n-1		Cr	
n	Cr	x	Cr
n+1		Cr	

FIG.12A

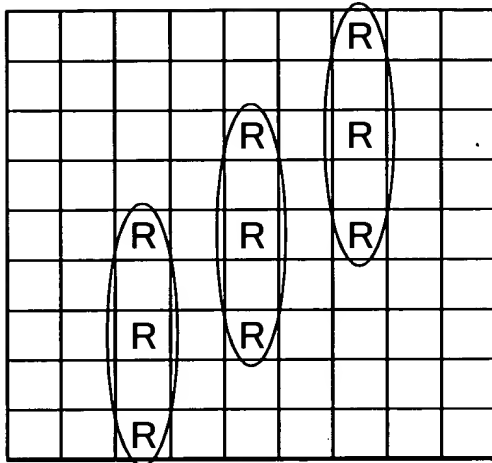
Cr		Cr
	×	
Cr	○	Cr
	×	
Cr		Cr

FIG.12B

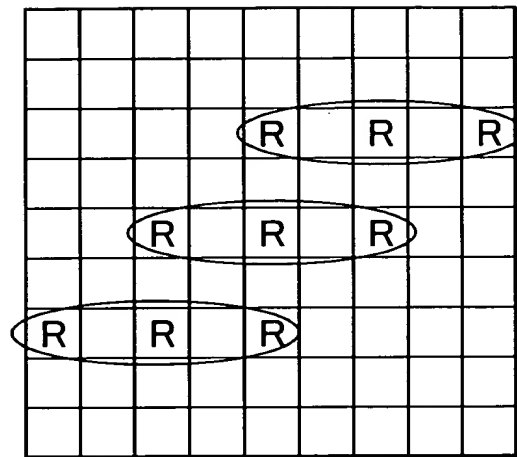
Cr		Cr		Cr
	×	△	×	
Cr		Cr		Cr

FIG.13

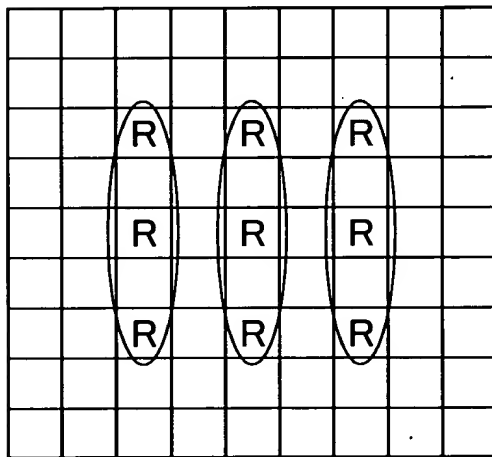
RED COLOR COMPONENT



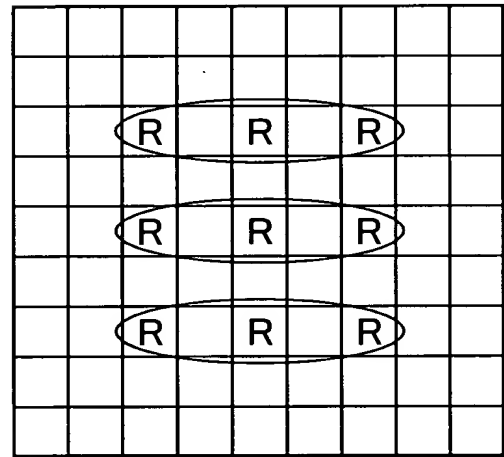
$\delta Rv45$



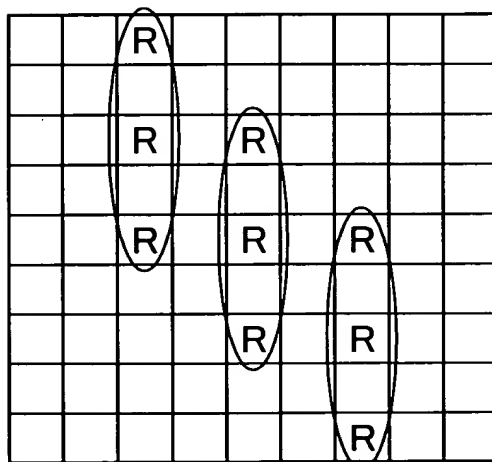
$\delta Rh45$



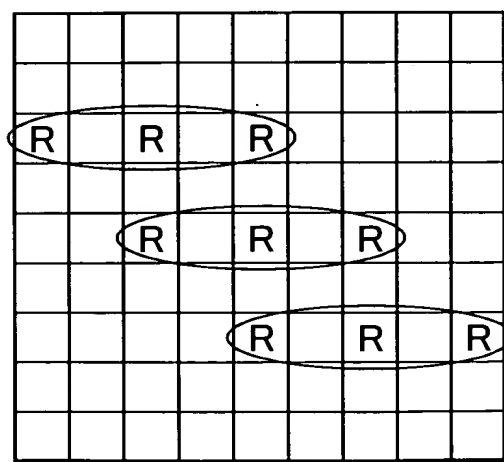
δRv



δRh



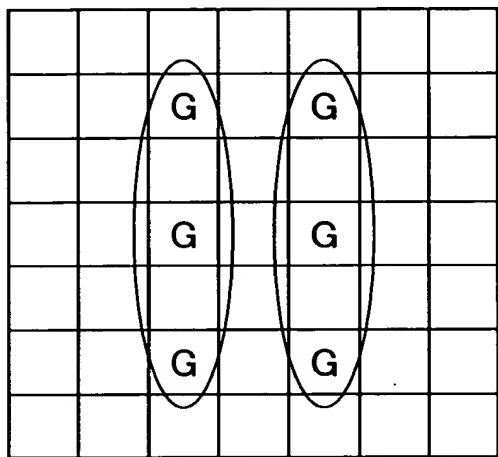
$\delta Rv135$



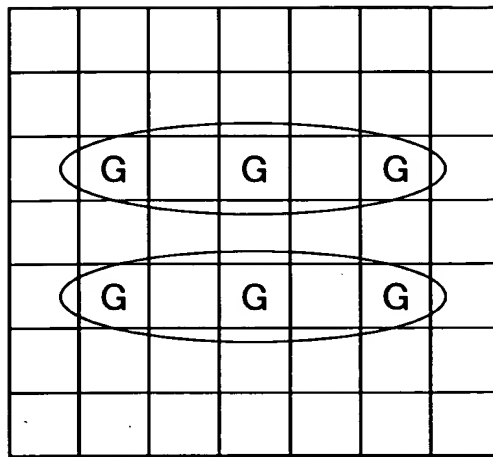
$\delta Rh135$

FIG.14

GREEN COLOR COMPONENT

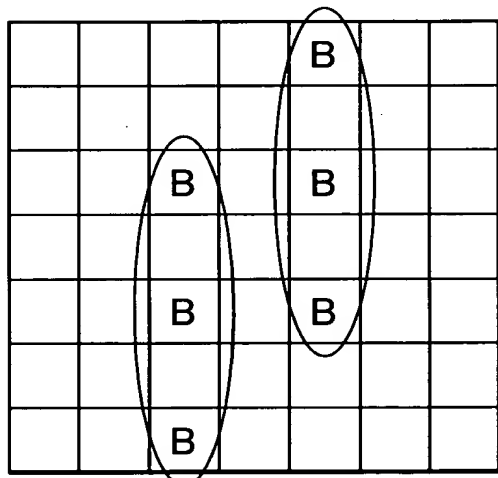


δ Gv

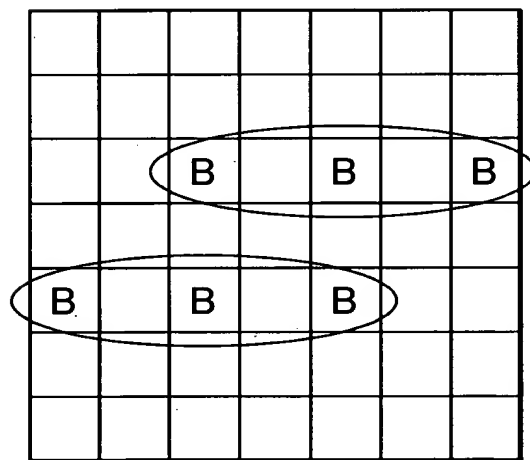


δ Gh

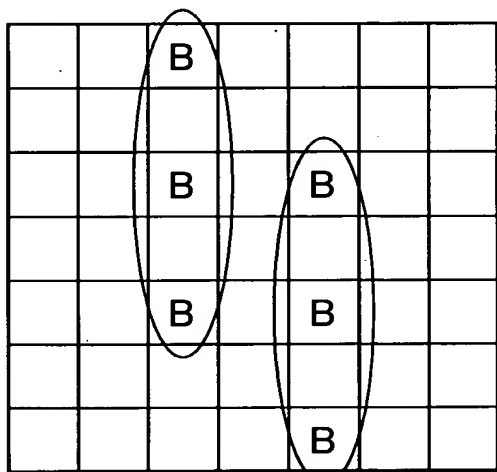
BLUE COLOR COMPONENT



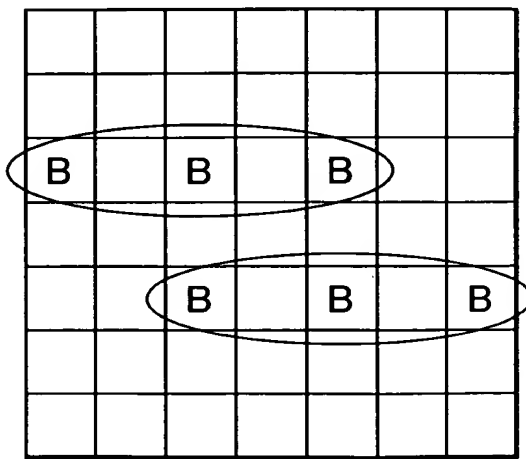
δ Bv45



δ Bh45

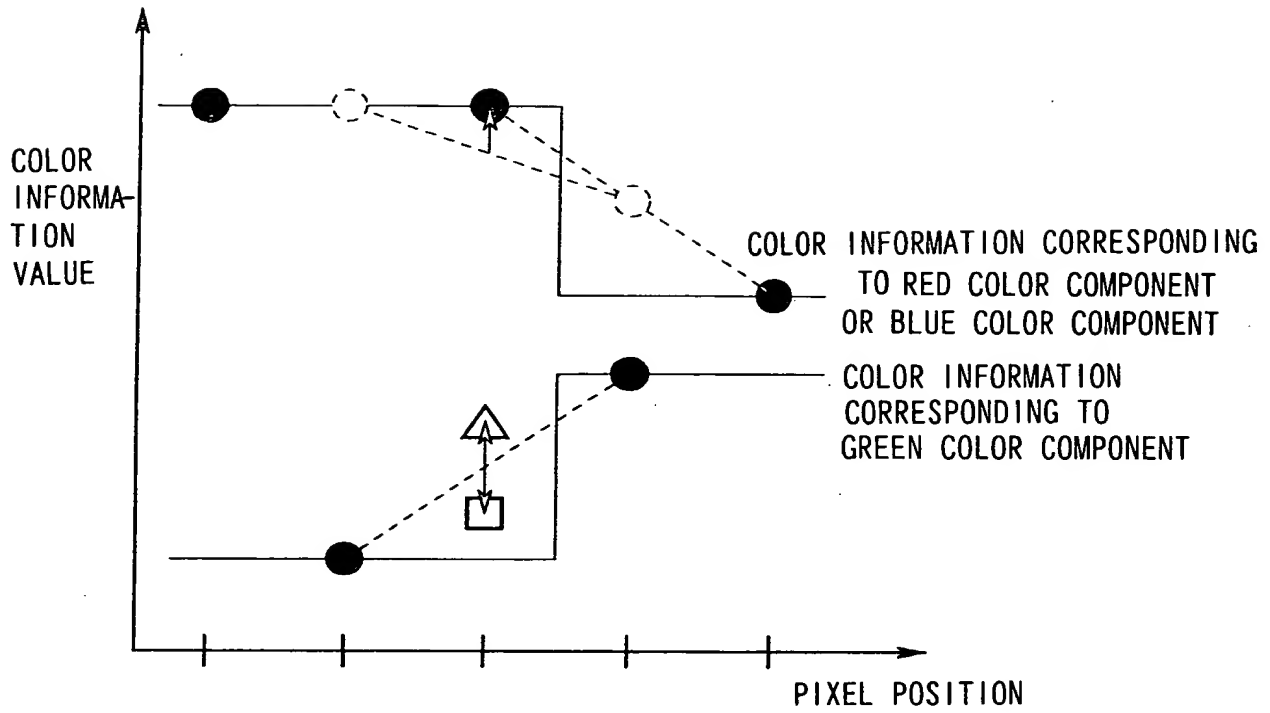


δ Bv135



δ Bh135

FIG.15



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FIG.16

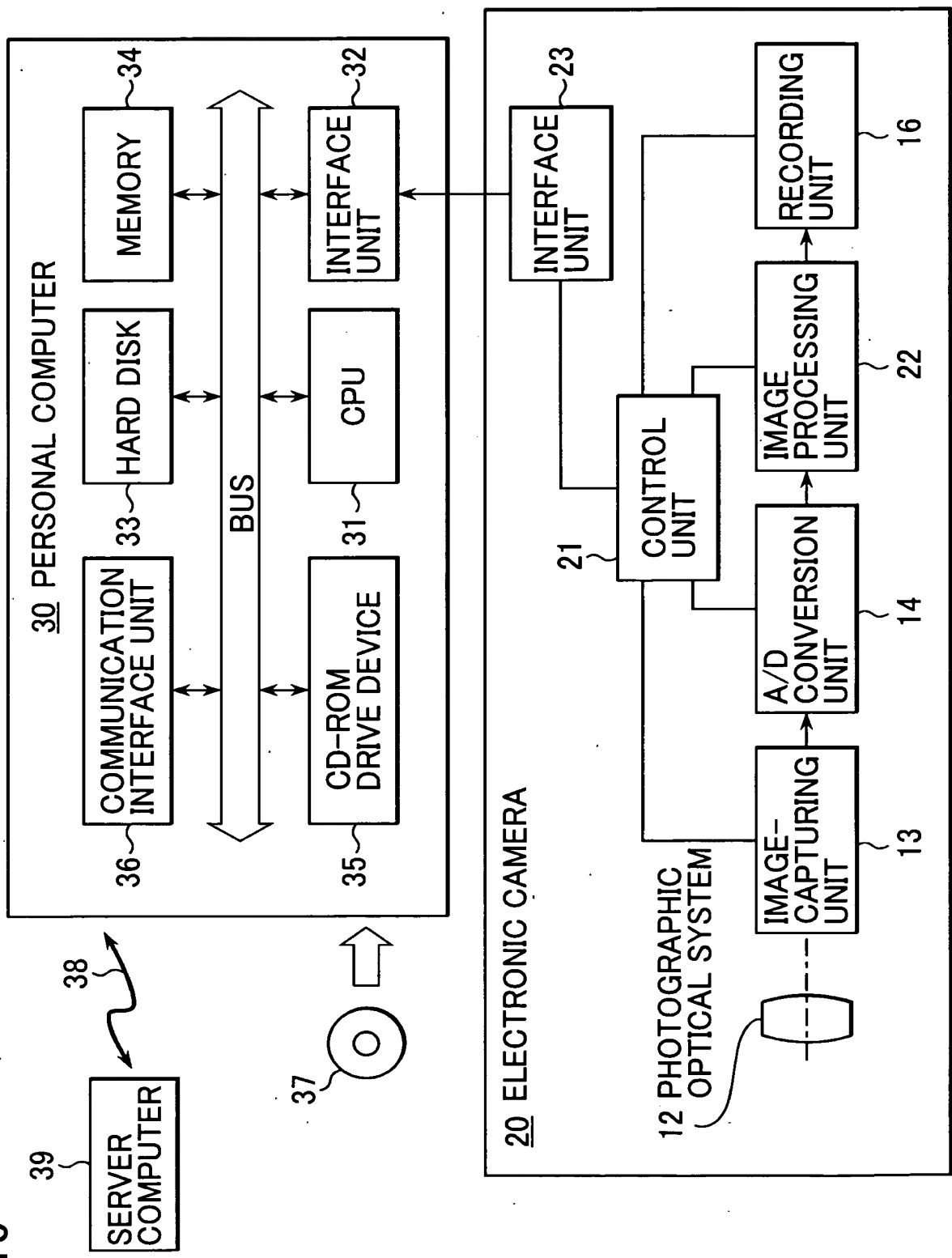
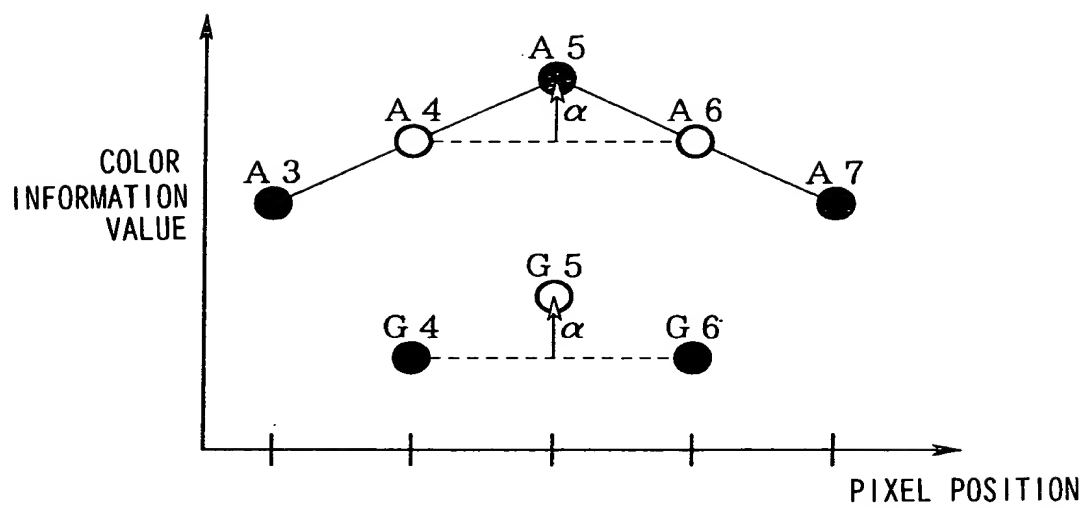


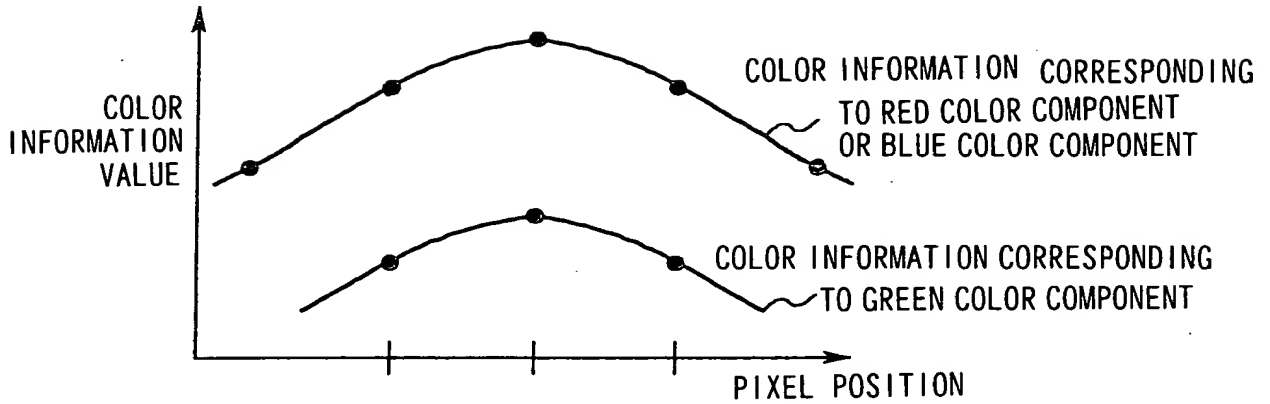
FIG.17



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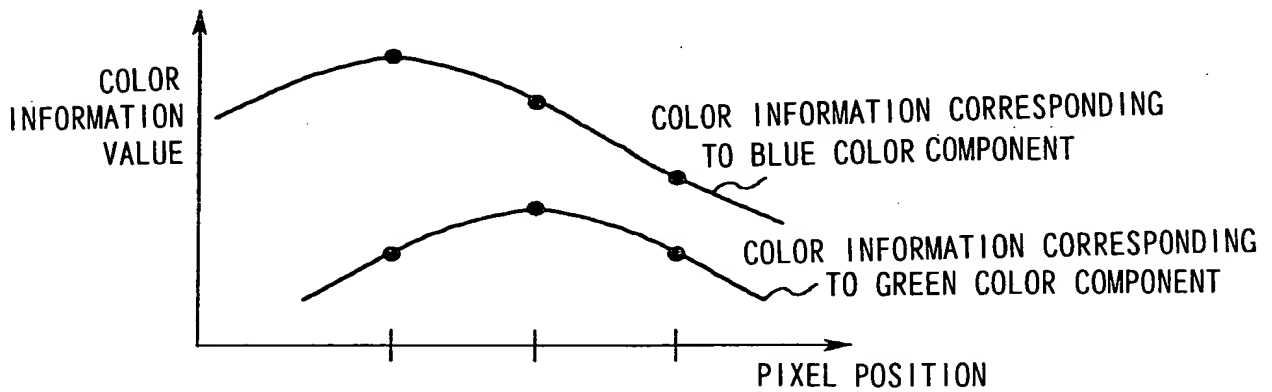
09677002-061101

FIG.18A



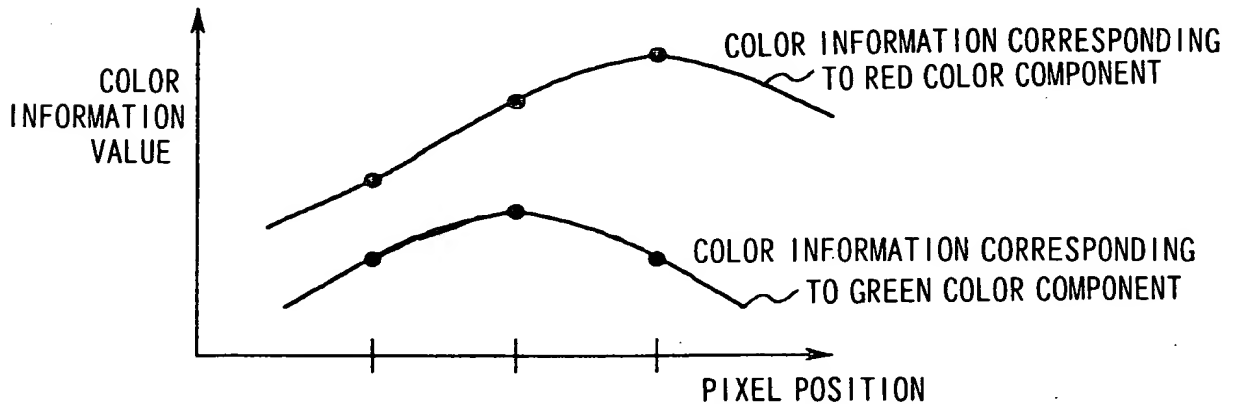
WHEN THERE IS NO MAGNIFICATION CHROMATIC ABERRATION

FIG.18B



WHEN THERE IS MAGNIFICATION CHROMATIC ABERRATION

FIG.18C



WHEN THERE IS MAGNIFICATION CHROMATIC ABERRATION

FIG. 19A

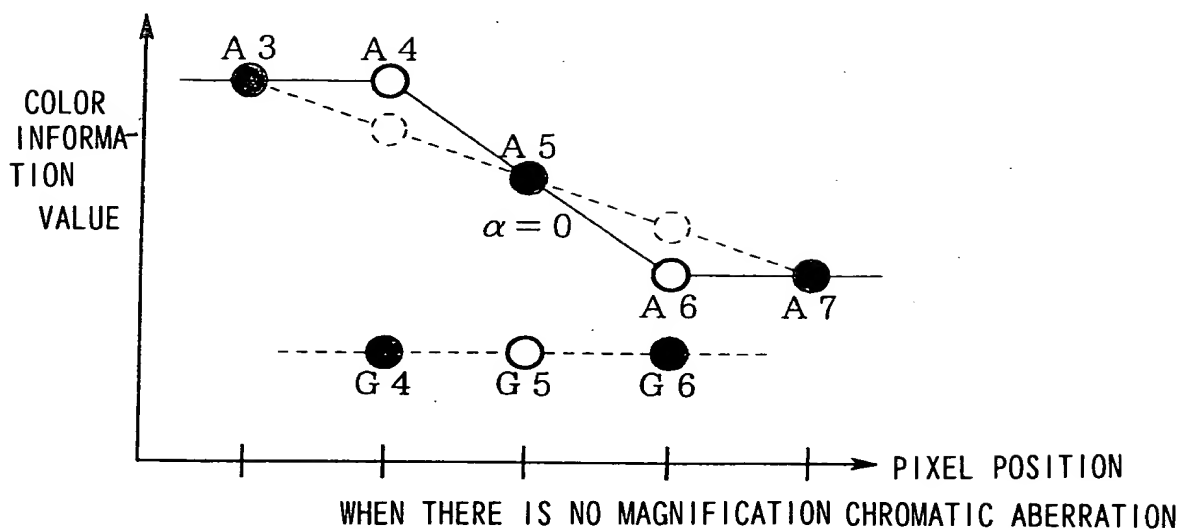


FIG. 19B

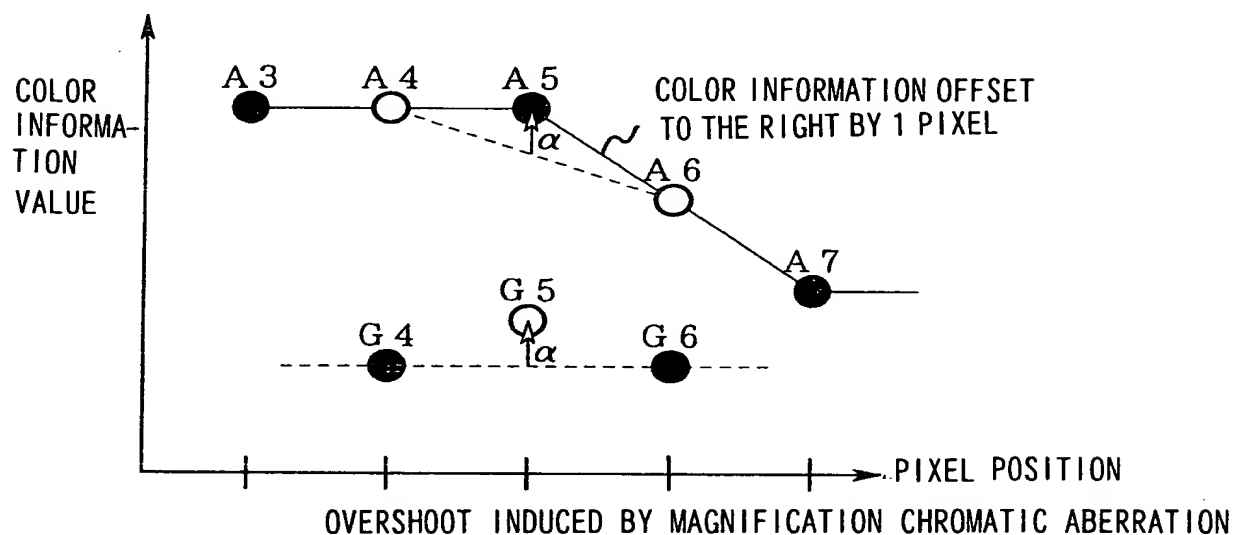


FIG. 19C

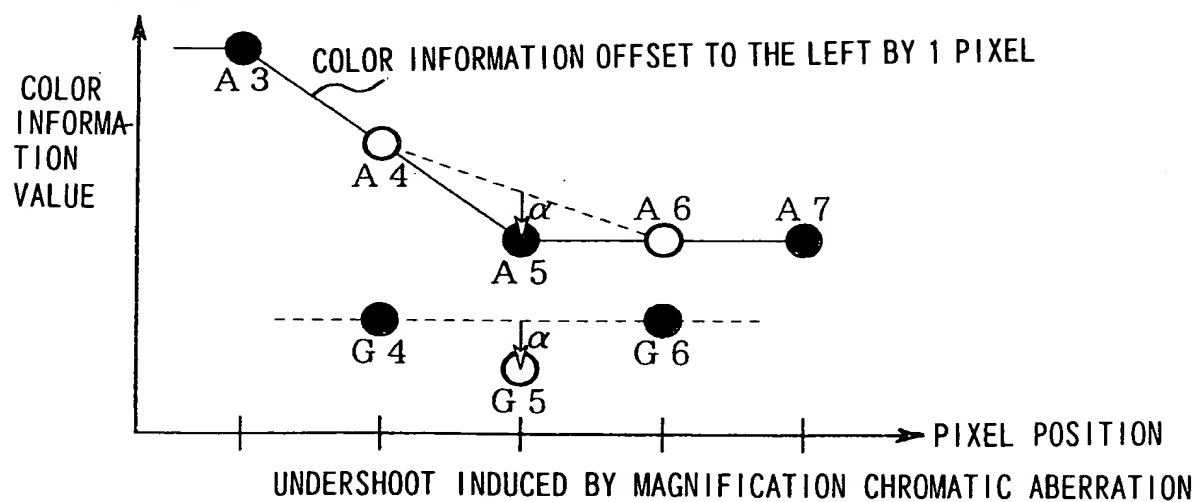


FIG.20A

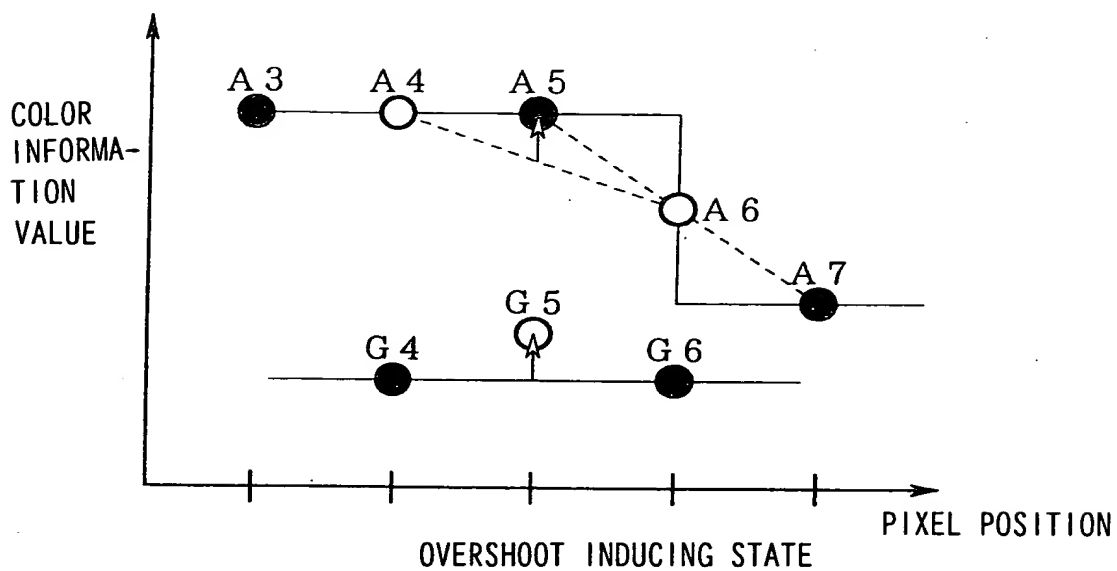


FIG.20B

